

Amendments to the Claims:

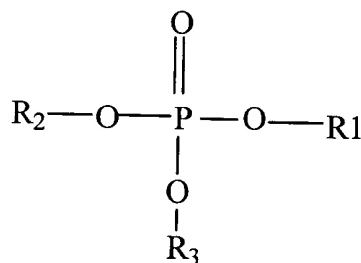
This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1. (Previously Amended) A wood composite material that is an oriented strand board comprising:

(i) an organophosphorus ester compound, (ii) a polymer binder resin, and (iii) about 0.5 wt% to about 2.5 wt% wax, wherein said composite material achieves a limiting oxygen index in the range of about 26 to about 40, an average thickness swelling in the range of about 7% to about 15 %, and said composite material has a fire spread rating of greater than about 25 and less than about 75.

Claim 2. (Original) The fire retardant oriented strand board composite material according to claim 1, wherein the organophosphorus ester has the formula:



and R₁, R₂ and R₃ are independently either alkyl or aryl chains having hydroxyl, carboxylic or both hydroxyl and carboxylic functionality.

Claim 3 (Original) The fire retardant oriented strand board composite material according to claim 1 wherein the at least one organophosphorus ester is at least one ester selected from the group consisting of diethyl-N, N-bis(2-hydroxyethyl) aminomethyl phosphate; dimethyl methyl phosphate; diethyl-N, N-bis(2-hydroxyethyl) aminoethyl phosphonate; dimethyl-N, N-bis(2-hydroxyethyl) aminomethyl phosphonate; dipropyl-N, N-bis(3-hydroxypropyl) aminoethyl phosphonate; and dimethyl-N, N-bis(4-hydroxybutyl) aminomethyl phosphonate.

Claim 4 (Original) The fire retardant oriented strand board composite material according to claim 1, wherein the organophosphorus ester is at least one ester selected from the group consisting of diethyl-N, N-bis(2-hydroxyethyl) aminomethyl phosphate and dimethyl methyl phosphate.

Claim 5 (Original) The fire retardant oriented strand board composite material according to claim 1 comprising from about 5 wt% to about 30 wt% of the organophosphorus ester compound.

Claim 6 (Original) The fire retardant oriented strand board composite material according to claim 2 wherein said polymeric binder is selected from the group consisting of isocyanates, phenol-formaldehydes, and melamine urea formaldehyde.

Claim 7 (Original) The fire retardant oriented strand board composite material according to claim 1 wherein the composite material comprises about 5 to about 30 wt % of the organophosphorus ester compound and about 3 to about 20 wt % of the polymeric binder.

Claim 8 (Original) The fire retardant oriented strand board composite material according to claim 1 wherein the composite material comprises about 5 to about 10 wt % of the organophosphorus ester and about 3 to about 10 wt % of the polymeric binder.

Claim 9 (Original) The fire retardant oriented strand board composite material according to claim 1, wherein the at least one organophosphorus ester forms cross-links between polymer chains of the at least one polymeric binder resin.

Claims 10-23 (Cancelled)

REMARKS

Claims 1-9 are pending in the present application. By the present amendment, Claims 21-23 have been cancelled. Previously, claims 10-20 were canceled, with claims 13-20 being canceled in response to the Examiner's restriction requirement.

No new matter has been added.